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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/872,848	06/01/2001	Inyup Kang	000303	3695
23696 75	90 08/05/2005		EXAMINER	
Qualcomm Incorporated			KIM, KEVIN	
Patents Departm			ART UNIT	PAPER NUMBER
San Diego, CA 92121-1714			2638	
			DATE MAILED: 08/05/2009	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/872,848	KANG ET AL.			
		Examiner	Art Unit			
		Kevin Y. Kim	2638			
Period fo	The MAILING DATE of this communication or Reply	appears on the cover sheet wi	th the correspondence address			
THE - External after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, it period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by seply received by the Office later than three months after the red patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a ron. The reply within the statutory minimum of thirt ariod will apply and will expire SIX (6) MON tatute, cause the application to become AB	eply be timely filed (30) days will be considered timely. FHS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status						
1)	Responsive to communication(s) filed on 2	?1 April 2005.				
. —		This action is non-final.				
3)□	,—					
Dispositi	on of Claims					
5)⊠ 6)⊠ 7)□	Claim(s) 3-5 and 8-15 is/are pending in the 4a) Of the above claim(s) is/are with Claim(s) 8-15 is/are allowed. Claim(s) 3-5 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and	drawn from consideration.				
Applicati	on Papers					
10)	The specification is objected to by the Exar The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the co The oath or declaration is objected to by the	accepted or b) objected to the drawing(s) be held in abeyan rrection is required if the drawing	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).			
Priority ι	ınder 35 U.S.C. § 119					
12)[a)[Acknowledgment is made of a claim for form All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International But see the attached detailed Office action for a	nents have been received. nents have been received in A priority documents have been reau (PCT Rule 17.2(a)).	oplication No received in this National Stage			
Attachmen		_				
1)	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948		ummary (PTO-413))/Mail Date			
3) 🔲 Infor	nation Disclosure Statement(s) (PTO-1449 or PTO/SE r No(s)/Mail Date		formal Patent Application (PTO-152)			

Application/Control Number: 09/872,848

Art Unit: 2638

DETAILED ACTION

Response to Arguments

The amendment filed on April 21, 2005 has overcome the rejection of claims 1,2,6 and 7 1. under 35 USC 103. However, when claim 1, indicated allowable, was combined into claim 1, the recited steps are not placed in a proper order as expected by the examiner. In retrospect, a suggestion on how to combine the steps should have been provided to applicant. The claimed invention in accordance with originally filed claims 1 and 3 was understood in light of the specification, specifically Fig.8 and related descriptions. Specifically, after a first string of samples are shifted into a shift register, the clock is disabled to allow the calculation of a plurality of partial correlation results, "a first correlation result" and "a third correlation result." Then the clock is enabled to shift a second string of samples into the shift register and "a second correlation result" and "a fourth correlation result" are calculated. The correlation results are finally summed. It is believed that this was intended by applicant when the application is considered as a whole. -Unless otherwise to be claimed, the rearranging of the steps, as suggested below, would remove any confusion as to the nature and scope of the claimed invention.

Proposed amendment to claim 3.

A method of searching for a synchronization sequence,

comprising:

shifting a first string of samples of a received signal into a shift

register according to a clock signal;

subsequent to the shifting a first string, disabling the clock

Application/Control Number: 09/872,848

Art Unit: 2638

signal;

calculating a first correlation result based on at least a first

substring of the first string of samples;

calculating a second correlation result based on at least a second

substring of the first string of samples;

subsequent to the calculating of the second correlation result, enabling the clock

signal,

subsequent to the enabling the clock signal, shifting a second

string of samples of the received signal into the shift register according to the

clock signal,

calculating a third correlation result based on at least a first

substring of the second string of samples,

calculating a fourth correlation result based on at least a second

substring of the second string of samples;

calculating a first coherent sum based on the first correlation

result and the second correlation result, and

calculating a second coherent sum based on the third correlation result and the fourth correlation result,

wherein a noncoherent sum is based on the first coherent sum

and the second coherent sum.

If agreed, dependent claims 4 and 5 should be carefully reviewed to be consistent with any changed language of claim 3.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Application/Control Number: 09/872,848

Art Unit: 2638

3. Claim 3-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In light of the specification, claim 3 is drawn to a method of searching for a sync sequence wherein, after a first string of samples are shifted into a shift register, the clock is disabled to allow the calculation of a plurality of partial correlation results, "a first correlation result" and "a third correlation result." Then the clock is enabled to shift a second string of samples into the shift register and "a second correlation result" and "a fourth correlation result" are calculated. The correlation results are finally summed. But the order of the recited steps fail to reflect this feature understood as the present invention.

For example, the step "subsequent to the disabling the clock signal, enabling the clock signal" is apparently erroneous since the clock signal can't be enabled "subsequent to," i.e., right after the disabling operation and reenabling should be performed after correction results in connection with the first string have been computed.

Allowable Subject Matter

4. Claims 8-15 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Y. Kim whose telephone number is 571-272-3039. The examiner can normally be reached on 8AM --5PM M-F.

Page 5

Application/Control Number: 09/872,848

Art Unit: 2638

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kenneth Venderpuye can be reached on 571-272-3078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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KEVIN KIM PATENT EXAMINER